

CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A medical system comprising:

- an implantable medical device including a connector bore, the connector bore having an inner surface;

- a single lead connector including a plurality of lead connector elements;

- a plurality of elongated insulated conductors;

- ~~an~~ a plurality of lead electrodes, each electrode of the plurality of lead electrodes coupled to a corresponding connector element of the plurality of connector elements via the plurality of elongated insulated conductors;

- a first adapter, extending from a first proximal end to a first distal end, having a first internal surface forming a first lumen to receive the single lead connector positioned within the first adapter and a first electrical contact element positioned along the first inner surface at a first distance from the first proximal end for electrically coupling with a first lead connector element of the plurality of lead connector elements when the single lead connector is positioned within the first lumen, the first adapter including a first insulative layer extending along the first inner surface to prevent electrical coupling of other than the first lead connector element; and

- a second adapter extending from a second proximal end to a second distal end, having a second internal surface forming a second lumen to receive the single lead connector positioned within the second adapter and a second electrical contact element positioned along the second inner surface at a second distance from the second proximal end for electrically coupling with a second lead connector element of the plurality of lead connector elements other than the first lead connector element when the single lead connector is positioned within

the second lumen, the second adapter including a second insulative layer extending along the second inner surface to prevent electrical coupling of other than the second lead connector element,

wherein each of the first adapter and the second adapter include a respective external surface to engage the inner surface the connector bore, the respective external surfaces including a conductive surface electrically coupled to the corresponding first and second electrical contact element to electrically engage the corresponding first and second electrical contact element within the connector bore,

wherein one of the first adapter and the second adapter configured to be up-sized.

2. (Previously Presented) The medical system of claim 1, wherein the external surface conforms to an industry standard.
3. (Previously Presented) The medical system of claim 1, wherein the lead connector further includes a connector ring positioned distal to the plurality of lead connector elements for electrical connection within the connector bore.
4. (Previously Presented) The medical system of claim 3, wherein the lead connector further includes a plurality of sealing rings positioned distal to the plurality of connector elements, a first sealing ring of the plurality of sealing rings positioned proximal to the connector ring and a second sealing ring of the plurality of sealing rings positioned distal to the connector ring.
5. (Previously Presented) The medical system of claim 1, wherein each lead connector element of the plurality of lead connector elements includes an outwardly extending protrusion.

6. (Previously Presented) The medical system of claim 1, wherein the first lumen and the second lumen are dimensioned to form a press fit about the plurality of lead connector elements when the plurality of lead connector elements positioned within one of the first lumen and the second lumen.

Claims 7-10 (Canceled)

11. (Currently amended) A method for coupling a selected one electrode of a plurality of electrodes to an implantable medical device, comprising:]
selecting an adapter ~~adapter~~ from a first adapter and a second adapter, the first adapter extending from a first proximal end to a first distal end, having a first internal surface forming a first lumen to receive a lead connector positioned within the first adapter and a first electrical contact element positioned along the first inner surface at a first distance from the first proximal end for electrically coupling with a first lead connector element of a plurality of lead connector elements when the lead connector is positioned within the first lumen, the first adapter including a first insulative layer extending along the first inner surface to prevent electrical coupling of other than the first lead connector element, and a second adapter extending from a second proximal end to a second distal end, having a second internal surface forming a second lumen to receive the lead connector positioned within the second adapter and a second electrical contact element positioned along the second inner surface at a second distance from the second proximal end for electrically coupling with a second lead connector element of the plurality of lead connector elements other than the first lead connector element when the lead connector is positioned within the second lumen, the second adapter including a second insulative layer extending along the second inner surface to prevent electrical coupling of other than the second lead connector element, wherein the first adapter configured to be up-sized; and positioning the lead connector within the lumen of the selected adapter ~~adapter~~.

12. (Currently amended) The method of claim 11, further comprising positioning the lead connector positioned within the lumen of the selected ~~adapter~~ adapter within a connector bore of the implantable medical device.

13. (Previously presented) A system for coupling a lead connector having a plurality of lead connector elements within a connector bore of an implantable medical device, the system comprising:

a first adapter, extending from a first proximal end to a first distal end, having a first internal surface forming a first lumen to receive the lead connector positioned within the first adapter and a first electrical contact element positioned along the first inner surface at a first distance from the first proximal end for electrically coupling with a first lead connector element of the plurality of lead connector elements when the lead connector is positioned within the first lumen, the first adapter including a first insulative layer extending along the first inner surface to prevent electrical coupling of other than the first lead connector element; and

a second adapter extending from a second proximal end to a second distal end, having a second internal surface forming a second lumen to receive the lead connector positioned within the second adapter and a second electrical contact element positioned along the second inner surface at a second distance from the second proximal end for electrically coupling with a second lead connector element of the plurality of lead connector elements other than the first lead connector element when the lead connector is positioned within the second lumen, the second adapter including a second insulative layer extending along the second inner surface to prevent electrical coupling of other than the second lead connector element, wherein the first adapter configured to be up-sized, and wherein each of the first adapter and the second adapter include a respective external surface to engage the inner surface the connector bore, the respective external surfaces including a conductive surface electrically coupled to the corresponding first and second electrical contact element to electrically engage

the corresponding first and second electrical contact element within the connector bore.

Please ADD the following NEW claim:

14. (New) A medical system comprising:

- an implantable medical device including a connector bore, the connector bore having an inner surface and comprising a connector block positioned along the inner surface;

- a single lead connector including a plurality of lead connector elements;

- a plurality of elongated insulated conductors;

- a plurality of lead electrodes, each electrode of the plurality of lead electrodes coupled to a corresponding connector element of the plurality of connector elements via the plurality of elongated insulated conductors;

- a first adapter extending from a first proximal end to a first distal end, having a first external surface and a first internal surface, the first internal surface forming a first lumen to receive the single lead connector positioned within the first adapter,

- the first adapter comprising a first electrical contact element having an outer surface forming a portion of the first external surface and an inner surface forming a portion of the first lumen, the first electrical contact element electrically coupling along its inner surface with a first lead connector element of the plurality of lead connector elements when the single lead connector is positioned within the first lumen and the first electrical contact element electrically coupling along its outer surface with the connector block when the first adapter is positioned within the connector bore,

- the first adapter further comprising a first insulative layer extending along the first inner surface to prevent electrical coupling of other than the first lead connector element; and

a second adapter extending from a second proximal end to a second distal end, having a second external surface and a second internal surface, the second internal surface forming a second lumen to receive the single lead connector positioned within the second adapter,

the second adapter comprising a second electrical contact element having an outer surface forming a portion of the second external surface and an inner surface forming a portion of the second lumen, the second electrical contact element electrically coupling along its inner surface with a second lead connector element of the plurality of lead connector elements other than the first lead connector element when the single lead connector is positioned within the second lumen and the second electrical contact element electrically coupling along its outer surface with the connector block when the second adapter is positioned within the connector bore,

the second adapter further comprising a second insulative layer extending along the second inner surface to prevent electrical coupling of other than the second lead connector element.